Amendment to the Claims

- 1. (Currently Amended) A method for detecting antithrombin III (AT) in a sample that may contain an interfering factor, the method comprising:
 - (a) <u>providing a reaction mixture by contacting the sample with a first reagent R1 comprising</u> an AT binding partner under conditions wherein the AT binding partner essentially does not interact with AT but interacts with the interfering factor,
 - (b) adding to the reaction mixture a second reagent R2 for a first determination of the free fraction of the AT binding partner,
 - (c) adding to the reaction mixture a third reagent R3 to change the conditions such that the AT binding partner interacts with AT and conducting a second determination of the free fraction of the AT binding partner, and
 - (d) determining the AT content in the sample from the difference between the first and second determinations of the free fraction of the AT binding partner.
- 2. (Original) The method of claim 1 wherein the AT binding partner is thrombin.
- 3. (Original) The method of claim 1 wherein the AT binding partner is factor Xa.
- 4. (Original) The method of claim 1 wherein the second reagent R2 comprises a chromogenic substrate.
- 5. (Original) The method of claim 1 wherein the second reagent R2 contains an antibody for determining the free AT binding partner.
- 6. (Original) The method of claim 1 wherein the third reagent R3 contains an accelerator of the interaction between AT and the AT binding partner.
- 7. (Original) The method of claim 6 wherein the accelerator is heparin.
- 8. (Original) The method of claim 1 wherein the first reagent R1 further comprises an antagonist for an accelerator of the interaction between AT and the AT binding partner.

- 9. (Original) The method of claim 8 wherein the first reagent R1 comprises polybrene.
- 10. (Original) The method of claim 1 wherein the third reagent R3 further comprises an additional AT binding partner.
- 11. (Original) The method of claim 1 wherein the determination of the AT binding partner comprises a kinetic determination.
- 12. (Currently Amended) A method for the detection of antithrombin III (AT) in a sample comprising determining the interaction of an AT binding partner with AT present in the sample, wherein a first determination of the AT binding partner is conducted <u>in a reaction mixture</u> without AT interaction and subsequently a second determination of the AT binding partner is conducted <u>in the reaction mixture</u> with AT interaction and the AT content of the sample is determined from the difference between the first and second determinations.
- 13. (Original) A reagent kit for the quantitative detection of antithrombin (AT) in a sample comprising:
 - (a) a first reagent R1 comprising an AT binding partner,
 - (b) a second reagent R2 for determining the free AT binding partner, and
- (c) a third reagent R3 comprising an accelerator for the interaction between AT and the AT binding partner where the third reagent R3 is separate from the first reagent R1.
- 14. (Original) The kit of claim 13 wherein the second reagent R2 is suitable for a chromogenic determination of the AT binding partner.
- 15. (Original) The kit of claim 13 wherein the second reagent R2 is suitable for an immunological determination of the AT binding partner.